



Control4 Operating System (OS) Release Version 2.3 Release Notes

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About Control4

Control4, a leading provider of the operating system for the smart home, delivers intelligent control of consumer electronics products, appliances and networking systems through an easy-to-use and intuitive software interface. Founded in 2003, the company delivers affordable automation and control of lighting, music, video, HVAC, security, and energy management systems to the broad market through more than 1,600 custom integrators, retail outlets, and distributors in over 65 countries. Control4 is the platform of choice for major consumer electronics companies, hotels, businesses and utilities that require an intelligent, open and affordable control solution. For more information visit www.control4.com.

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1. Introduction

This latest and greatest Control4® Operating System Release 2.3 (also known as OS 2.3) really packs a punch. Better performance, elegant enhancements to the UI, control features that let your customers personalize their lighting experiences and manage their MyHome devices, expanded interoperability, and more features designed to support your commercial business. Check out all of the new and improved features of OS 2.3 in this document.

2. OS 2.3

2.1 What's New

OS 2.3 supersedes all previous updates to the Control4 system. This release is recommended for new customer installations, as an upgrade path for existing customers, or for customers who have had problems with earlier releases that may now be resolved.

2.1.1 New Lighting Experience

2.1.1.1 New UI

A new, clean, intuitive UI for lighting is consistent across every device –TV screens, touch screens, smart phones, and tablets. Now it's easier and more intuitive for your customers to control lighting throughout their home or business. See the *Control4 System User Guide* for details.

- Fewer button clicks—see lights or lighting scenes on their own page—or all lights in one view
- More responsive to commands in the UI with enhanced animation
- Improved room filter for easier room navigation

Customers have been asking for a little more control. Now you can give it to them—right from any Control4 Touch Screen or MyHome PC.

- Customers can add, rename, or edit lighting scenes. Scenes must be deleted in Composer Pro.
- Change the brightness of certain lights while preserving the scene.
- Scene learning provides the ability to manually adjust lights throughout the house, and then save those settings into a lighting scene.

2.1.1.2 Advanced Lighting Scene Agent

The new Advanced Lighting Scene agent with enhanced features includes scene tracking, scene toggling, scene ramping/fading, delays, and multiple actions within scenes. This agent also gives you the power to design sophisticated lighting scenes in Composer Pro.

- Create up to 256 scenes!
- Toggle scenes with one button.
- Track lighting scenes: ON, OFF, % level and final state level.

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- Edit and add new lighting scenes on Touch Screens and MyHomePC apps.

Notes: (1) Some features are currently only available with Panelized Lighting lights (not yet released). (2) The Advanced Lighting agent MUST be added to the project first before the edit icon will appear on the Navigators to create and edit Lighting Scenes. (3) Not supported on MyHome for iOS or Android devices or On-Screen Navigators. See the *Control4 System User Guide* for details.

2.1.1.3 Panelized Lighting

The new Panelized Lighting (to be released soon) has been added to Composer Pro for planning purposes in OS 2.3.

- **Drivers**—The Panelized Lighting drivers are included in Composer Pro. Although this product and training have not yet been released, you can add the drivers to your sample project and test how to design a system using the Panelized Lighting devices. Configuration information is available in the *Composer Pro User Guide*.
- **Reports**—Panelized Lighting reports have been added to Composer Pro in Tools. You can also test how reports are created for Panelized Lighting. See the *Composer Pro User Guide* for details.
- **Light Properties Agent**—Added a new Light Properties agent to simplify initial setup of the basic properties for panelized lights.

2.1.2 MyHome Device Management

Ever had a customer call you on the weekend to let you know they had just purchased a new smart phone or tablet and needed to connect it to their Control4 system? Now your customers who have a MyHome site license can easily add, delete or swap out their smart phones and tablets without your assistance— they just need a license.

The release of Control4 MyHome™ v2.3 apps for iPhone®, iPad®, Android™ and PC/Mac introduces a new way that customers can manage their devices within their MyHome license. This update *replaces the existing driver addition and 'identify' process* that was previously required to enable access for a MyHome app to work on a mobile device or on a PC/Mac. The update lets users add their own MyHome device to their Control4 system without dealer assistance. We've also performed significant maintenance and interface changes to the MyHome apps.

Any time customers upgrade an iPad or replace their Android phone, they can simply add the new device to their system using their my.control4.com email address without any hassle or expense—for you or for them.

- **Existing Devices: Upgrade MyHome app**—Customers who already connect to a Control4 system using MyHome can use the new model automatically. We provide an upgrade for customers already configured to connect to a system that used the previous driver and identify model. Upgrade users will NOT be required to reconfigure their devices; they simply enter their my.control4.com email and password. **IMPORTANT!** If your customer's system has not been updated to OS 2.2.4, you will need to uninstall the MyHomePC app and reinstall the new MyHomePC app for OS 2.3.
- **New Devices: Add MyHome app**—To connect a new device to the system, the user must have the following:
 - Control4 OS – 1.74, 1.82, or 2.0 or later.

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- Internet access to connect to the Control4 web-based licensing check.
- My.control4.com email address and password. This is to confirm the user's my.control4.com email address and password and determine authorized access, license availability (site or device licenses), and controller name on the local network. **Note:** The user must use their primary account's email address and password in my.control4.com; not secondary user email addresses and passwords.
- WiFi connection on the same network as the controller. After the user's my.control4.com credentials are authorized, the device connects to the controller. **Notes:** (1) The user must be on the same WiFi network as the controller. (2) The above requirements handle the vast majority of customer installs. See the *MyHome Setup Guide for Dealers*, the *MyHome Release Notes*, or articles on the Knowledgebase related to MyHome for more details.
- **Additional language support(iPad/iPhone/PC/Mac)**—This is a complete list of the languages that are now supported:

Chinese (China)	Greek	Slovak
Chinese (Taiwan)	Hebrew	Spanish
Croatian	Indonesian	Swedish (Sweden)
Czech	Italian	Thai
Dutch (Netherlands)	Korean	Turkish
English (US)	Norwegian Bokmål (Norway)	Ukrainian
Finnish	Polish	
French	Portuguese	
German	Romanian	
German (Switzerland)	Russian	

For more information on how customers can easily manage devices, visit <http://www.control4.com>.

2.1.3 Access Agent

A new Access agent has been added to Composer Pro with optional access-control settings on Control4 flash-based touch screens only. The Access Agent lets you restrict access to certain features and functions using 4-digit pin protection. Fully restrict access to certain areas of the Control4 navigation or hide those areas from view.

Ideal for:

- Business owners who have to worry about staff making unwanted changes
- Homeowners who want to restrict access for children or staff
- People with second homes where guests or renters might be interacting with the system
- Builders with model homes where certain functions need to remain off-limits

Notes: (1) When elements are locked, a 4-digit pin code must be entered for access. In some cases, elements can be hidden from the user interface. (2) Not supported on MyHome for iOS or Android devices.

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The following access control options are available. If locked, access requires a 4-digit code to unlock and use it.

- **Control4 Home**—Lock the Control4 Home button on the status bar.
- **Back Button**—Lock the Back button on the status bar.
- **Favorites**—Lock or hide the Favorites button on the status bar. If hidden, the button is invisible to the user.
- **Room Selector**—Lock or hide the Room Selector functionality on the status bar. If hidden, the button is invisible to the user.
- **Intercom**—Lock the Intercom button on the status bar.
- **More**—Lock the More button on the Home Screen.
- **Settings**—Lock the Settings button in the More screen.
- **Edit Lighting Scenes**—Lock or hide the Edit Lighting Scenes icon on the Lighting screens. If hidden, the edit icon is invisible to the user.

2.1.4 SDDP

Did you ever have a problem finding the right driver for a piece of hardware? OS 2.3 now supports Control4 Simple Device Discovery Protocol (SDDP) which has the ability to greatly reduce the amount of time it takes to find and add drivers to a new or existing project.

With OS 2.3, Composer can automatically identify and load the correct Control4 device drivers for you. Compatible devices will be identified automatically in Composer, and they will remain in contact with the Control4 system regardless of IP address changes. All shipping Control4 Controllers and Touch Screens support SDDP functionality when they are updated to OS 2.3, and more Control4 and third-party devices will be coming online soon to further expand the ecosystem of SDDP-enabled products.

See the *Composer Pro User Guide*, “Configuring Devices” for additional information about this capability.

2.1.5 Commercial and Residential Drivers

With nearly two dozen new drivers for residential and commercial applications, you have greater ability to integrate Control4 systems with third-party products.

- The FieldServer driver allows Control4 to manage a wide range of commercial HVAC systems to add climate control to automated business solutions.
- For international lighting projects, Control4 now offers a driver for KNX systems which opens up a huge opportunity to integrate with a number of popular KNX solutions.
- Check out the other new drivers that are now available.

2.1.6 Sony STR Updates

The Sony STR has been updated to OS 2.3.

Sony license change. The SKU for the Control4 Activation License for the Sony STR receivers has been changed from C4-SO-STR-Activation to C4-SO-STR-Activate-E.

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2.1.7 Commercial Tools for Success

New features and functions support your opportunities in the commercial space:

- Access Agent lets business owners restrict access to certain areas using 4-digit code protection and hiding select functions.
- Themes SDK lets you customize the UI on touch screens and TVs to showcase the company's brand.
- The Fieldserver driver provides more robust support for commercial HVAC systems including Delta Controls, GE, Honeywell, Johnson Controls, Mitsubishi, Rockwell and other thermostats over device networks, including BACnet, Lonworks, Modbus, and more via serial, bus or TCP/IP.

2.2 What's Improved

OS 2.3 is purpose-built for high performance and reliability to ensure that Control4 systems are running at their peak. This generation of software is designed to deliver new levels of stability, and with more bug fixes than ever, promises to offer you and your customers an elevated experience.

2.2.1 SR-250 System Remote Control

Dramatic improvements in remote performance:

- The speed and reliability of button presses is greatly improved.
- The motion sensor is more responsive when you pick it up and won't go to sleep when you're in the middle of a session.
- List Navigator redraws are now much faster.

2.2.2 Audio and Video Intercom

The intercom experience is notably more consistent and stable, delivering a great experience for your customers:

- Calls stay online more consistently.
- The issue where touch screens get out of sync has been resolved.
- Now you can have up to 30 video intercom devices in one call group (up from 8).

2.2.3 MyHome

MyHome is substantially faster and the UI is more consistent and intuitive:

- **Apple iOS 6 support (iPad/iPhone)**—Improved stability on iOS 6 devices.
- **Optimized startup and reconnect time (iPad/iPhone)**—The launch time has been improved, so connecting to a system is now much faster. Additionally, when reconnecting the app from the background, the app connects more quickly.
- **Better stability and performance**—including Rhapsody.
- **New languages**—For new markets.
- **Improved blind support (iPad/iPhone)**—Blinds are updated to support additional third-party blinds, including Somfy and Mecho Shades with the V1 and V2 blinds proxy. The Navigator also shows the state of a blind (open/closed) as a toggle.
- **Improved Rhapsody/Napster stability (iPad/iPhone)**—Resolved some issues where Rhapsody/Napster would log out. Improved overall application stability when using Rhapsody.

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- **Zone page optimization (iPad/iPhone)**—Improved speed to the Zones page when adding additional rooms to a zone.
- **Improved Android 4 support (Android)**—Improved stability and graphics handling on Android 4.
- **Enhanced device control UI (Android)**—The audio and video device pages (device transport controls) have been updated for better use of screen space on phones and tablets.
- **Nexus 7 layout enhancements (Android)**—The interface was updated to support better screen resolution offered on the Nexus 7, making the interface and buttons look cleaner throughout the entire application.
- **Additional language support (Android)**—This is a complete list of the languages that are now supported:

Bulgarian	Greek	Slovenian
Chinese (China)	Hebrew	Spanish
Chinese (Taiwan)	Indonesian	Swedish (Sweden)
Croatian	Italian	Thai
Czech	Korean	Turkish
Dutch (Netherlands)	Norwegian Bokmål (Norway)	Ukrainian
English (US)	Polish	
Finnish	Portuguese	
French	Romanian	
German	Russian	
German (Switzerland)	Slovak	

2.2.4 Updated Drivers

More drivers with more enhancements make your installations easier:

- Over 300 existing drivers have been updated to provide better performance with more being released all the time.
- Extra Vegetables Drivers. OS 2.3 has addressed some issues that were creating performance concerns with some of the most popular drivers available. If you have customers with iTunes, Pandonos, or DIRECTV drivers and apps from Extra Vegetables, you'll want to update the drivers and the software to give them the best possible experience. A new Auto Update feature on the Version 7 drivers ensures that new updates will be pushed automatically without requiring site visits or time spent updating systems via remote access to streamline installation and support.
- See Section 3, "New and Updated Certified Drivers" for more information.

2.2.5 Performance Enhancements

Lots of behind-the-scenes updates significantly improve the performance of the system:

- If you're using HC-200, HC-300, or HC-1000 Controllers, you'll see significant performance improvements in many configurations.
- SNMP performance has been increased.
- Network communications no longer have the ability to block Director.

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- Optimized Director “save state” functions to improve system performance.

2.2.6 Extensive Bug Fixes

Designed to remedy those issues that “bug” you:

- Security system status and reporting. Fixed some issues where security systems were not showing the correct status.
- Improved controller reconnection logic with remote access.
- Improved scalability and capacity for accessing Control4 web services.
- Required re-identification after an update.
- Fixed the Update Manager window not reconnecting after the Primary Controller updates.
- Improved Announcement Agent set up and execution.
- Improved album art and movie metadata lookups using Gracenote®.
- Sony has improved zones control, improved IR learning, and more.
- Improved the SpeakerPoint™ update process to reduce a probability that they require a manual power cycle after an update.
- Fixed an issue where Not a Number (NAN) was showing up instead of a temperature.
- Fixed an issue where an update failure occurred and you had to re-identify before you were allowed to update.
- Composer and Director fixes:

Bindings—When working with bindings in Composer (Connections > Control/AV), the target binding options in the bottom window will retain their current view as long as the installer continues to work with the same type of input bindings. This is particularly helpful when configuring the button-link bindings for lights and the AV bindings for AV switches and receivers.

Composer 2.3—Automatically uninstalls when installing a new build of the same version (this only may be of value to Beta testers, since the standard dealer won’t install different versions of OS 2.3).

Crashes—Fixed some Composer crash issues.

Lookup—Corrected a problem with the lookup and entry of Latitude and Longitude values using the Lookup interface for users whose Windows Format settings are configured in a region that uses the comma (,) rather than the period (.) in the Latitude/Longitude values.

SNMP—Fixed an issue where SNMP was consuming too much CPU on the Director process.

Time/Date—Added a notification to check system date/time settings when Composer is unable to make an SSL connection to Director.

- Blinds are updated to support additional third-party blinds, including Somfy and Mecho Shades with the V1 and V2 blinds proxy on iPad and iPhone devices. The Navigator also shows the state of a blind (open/closed) as a toggle.
- Fixed several issues related to bookmarks (Favorites).
- Made multiple improvements to improve Intercom audio and video stability after OS 2.2.2 and OS 2.2.4.
- Fixed several On-Screen Navigator focus defects.
- Fixed some issues regarding Internet radio fluctuations.

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- Fixed an issue where SpeakerPoint devices required a reboot after an update.
- Fixed some issues where the Zones page was not populating correctly.
- Made extensive improvements to the whole Control4 system.

3. New and Updated Certified Drivers

The following list provides new and updated drivers after OS 2.3.

3.1 New Drivers

Company Name/Driver Name	Driver Name	Driver Name
Aprilair 8800 Thermostat		
BPL	BPL IQ 3 Button Keypad	BPL IQ Dimmer
	BPL IQ Door Sensor	BPL IQ Gateway
	BPL IQ Geyser Controller	BPL IQ LPG Sensor
	BPL IQ LPG Valve Controller	BPL IQ Motion Sensor
Denon	AVR-3313CI Receiver	AVR-2313CI Receiver
	AVR-2113CI Receiver	AVR-1713 Receiver
	Blu-Ray DBT-3313UD	
Diamond Design Media Server		
Dune Media Player		
Electronic Solutions Shades		
Eragy Energy Manager		
HydraConnect HSS-1 HDMI Switch		
Somfy	Somfy Glydea Shades	Somfy ILT-ST30 Shades
Sony	DA-5800ES Receiver	DA-2800ES Receiver
	DA-1800ES Receiver	Sony TV XBR-84X900
	Sony Projector VPL-VW1000ES	
Leaf	LTHDMI44 HDMI Switch	LTHDMI66 HDMI Switch
	LTHDMI88 HDMI Switch	
Marantz	SR7007 Receiver	SR6007 Receiver
	SR5007 Receiver	NR1603 Receiver
	Blu-ray UD7007	
Nyce	Nyce Keyfobs	Nyce Motion Sensor NCZ-3041
Sharp Projector Sharp XV-Z30000		
Snap AV	SnapAV Wirepath DVR	Binary B-100-300 4x4 HDMI Switch
	Binary B-100-300 8x8 HDMI Switch	
Toshiba	42L6200U TV	47L6200U TV
	47L7200U TV	55L6200U TV
	55LL7200U TV	
Yamaha	RX-A3020 Receiver	RX-A2020 Receiver
	RX-A1020 Receiver	RX-A820 Receiver
	RX-A720 Receiver	
Zektor HD-800 HDMI Switch		

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3.2 Updated Drivers

Company Name/Driver Name	Driver Name	Driver Name
Integra	DTR-80.2 AVR	DTR-70.2 AVR
	DTR-50.2 AVR	DHC-40.2 AVR
	DTR-40.2 AVR	DTR-30.2 AVR
	DTR-20.2 AVR	DHC-80.1 AVR
	DTR-80.1 AVR	DTR-50.1 AVR
	DTR 70.1 AVR	DHC-40.1 AVR
	DTR-40.1 AVR	DTR-20.1 AVR
	DTR-30.1 AVR	
Nyce Contact Switch NCZ-3011		
Onkyo	PR-SC5507 AVR	PR-SC5508 AVR
	TX-NR5007 AVR	TX-NR1008 AVR
	TX-NR1007 AVR	TX-NR3007 AVR
	TX-NR3008 AVR	TX-NR808 AVR
	TX-NR807 AVR	TX-SR707 AVR
Sony	STR-DA5600ES Receiver	STR-DA4600ES Receiver
	STR-DA3600ES Receiver	STR-DA5700ES Receiver
	STR-DA5500ES Receiver	STR-DA3700ES Receiver
	STR-DN2010 Receiver	
Sony 7000 Disc Changer		
Yamaha RX-A1000		
Yale		

4. Notifications, Limitations, or Warnings and Workarounds

4.1 OS 2.3

4.1.1 MyHome

- **App updates for Android and iOS.** Existing MyHome users must update their Android and iOS apps after the system has been updated to OS 2.3.0. Otherwise, the app will not work. If you have already updated your system to OS 2.3.0, the apps will work.
- **Adobe Air updates for MyHome-PC.** If you receive an update notification to install a newer version of Adobe Air and you update Adobe Air after you've installed OS 2.3.0, you will not be able to use MyHome. Adobe is aware of this problem, but probably will not resolve it.

4.1.2 Older Devices

- The Media Controller, Home Theater Controller, and 10.5" In-Wall Touch Screen V2 will not update beyond OS 2.2.4.
- The Mini Touch Screen and 10.5" In-Wall Touch Screen V1 will not update beyond OS 2.0.6.

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4.2 OS 2.x.x and Prior Releases

- **SpeakerPoint and Home Theater Controller may require a power cycle to complete an update.** The SpeakerPoint is most likely to experience this problem, but it has also been observed on other products sharing the same processor (e.g., Home Theater Controller, Media Controller). Occasionally, the SpeakerPoint will not properly reboot itself after the update is complete even though we have made improvements in OS 2.3.0. If the power and data lights are lit (not flashing) and the device has not restarted, you may need to power cycle it. **IMPORTANT!** Do not power cycle the device if the data and link lights are flashing.
- **10.5" Wireless Touch Screen V2 may not complete the update to OS 2.2.** Occasionally, we have seen the 10.5" Wireless Touch Screen V2 not complete the update from 1.7.4 or 1.8.2 to OS 2.3. This is caused by the device not properly re-connecting to the network during the middle of the update process. If this occurs, you may use the USB Recovery solution to load OS 2.3 on the Touch Screen.
- **10.5" Wireless Touch Screen V2 running 1.7.x may not ID into an OS 2.2 system.** The Touch Screen may not identify into an OS 2.3 system if it is running an older version with the legacy Navigator. If it has already been identified into the system, this does not present a problem. If it's being added to a different system running OS 2.3, you may find it necessary to use the USB Recovery solution to update the panel to OS 2.3.
- **Windows PC running Composer must be rebooted after updating the system.** After updating a Control4 system to OS 2.3 from any version prior to OS 2.1, the PC running Composer must be rebooted to remount the Samba file shares properly. Because the Samba server on the Controller has been updated, the PC no longer recognizes the previously-loaded shares as valid. After the PC reboots, the shares will mount properly. This is important to understand if you are trying to load media or perform a full backup containing media after the update. These operations will not complete correctly until the computer running Composer is rebooted.
- **ZigBee devices not online.** If the ZigBee mesh is offline for an extended period of time, some ZigBee devices may go into "lost sheep" mode and not come online immediately. After updating a Control4 system to OS 2.3 you will want to verify that all the ZigBee devices are online so that they can be updated. If a device is offline for this reason, it can be brought online quickly by rebooting it or by using the standard Identify tap sequence.
- **Update stalled.** Despite significant improvements to Update Manager, it's still possible that a device will fail to update, especially when updating from a version prior to OS 2.1. This is because the first part of the update is handled by the update software already installed on the device. In the rare event that the update fails during the portion of the update that uses the existing software, it may be necessary to reboot the device or re-start the update.

One example—but not the only one—is the upgrade of a device can become stalled if the packages it requires do not exist on the Primary Controller. This can happen if the Primary Controller reboots before the secondary device finishes its update; or the agent restarts the update.

 - This is "normal" update behavior for the prior version of Update Manager. While this is fixed in the new Update Manager—which looks in more places for the packages it needs—if the device hasn't been updated, it won't have that new capability.
 - You should be able to get things going again by opening the Composer Update dialog box, selecting Cancel Update, and restarting the update. This will cause the agent to download the required packages again, and restart the update.
- **Thermostat schedule may not be correct after firmware update.** This applies primarily to systems updating from any version prior to OS 2.1. Please check the Control4 Wireless Thermostat's stored schedule after the system has been updated to OS 2.3 and that the Thermostat firmware has been updated to 03.11.04.

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- **Media export includes playlists.** The Composer Media Manager export function always includes playlists. If you import multiple exported media files, you will have multiple copies of the playlists included. These extra playlists can be deleted manually in Composer.
- **Composer Pro requires .NET Framework.** If installing Composer Pro on a new computer, you must also install .NET Framework 2.0 and 4.0.
- **Wireless Thermostat setpoint +/- programming.** If you've used the HEAT_SETPOINT or COOL_SETPOINT thermostat variables to programmatically increment or decrement the current setpoints, be aware that these variables are in 0.1 Celsius integer units. You'll need to add or subtract accordingly to obtain the desired real setpoint changes.
- **HC-200/HC-300/HC-500 bootup from backup partition.** Occasionally, the HC-200, HC-300, or HC-500 Controllers are unable to boot up from the active boot partition. If this happens, the device fails over to a recovery partition. The recovery partition allows the device to boot up and become operational. The device version will show up as 2.0.0.0 when this happens. Some non-essential system packages, including Navigator, are not loaded on the recovery partition. The device will need to be updated to OS 2.3 to load these packages.
- **Composer error on startup.** When starting Composer, if you receive an error message of the form:
2010-05-19 09:42:28,119 [5732] WARN Control4.Client.ConfigDataManager - The file 'driver file name' has an improperly formatted version tag. The driver will still be loaded but there may be problems with updating this driver until the problem is fixed.
This means you have a DriverWorks driver in your project using a non-integer in the version field. The driver will continue to function, but it will not be updated when using the "Update Driver" function. It needs to be replaced manually.
- **Using Page Flips via Programming on an On Screen device.** If you use page flips, you need to take into account the power state (on/off) of the display device (TV or Projector) and whether it is being used for something else (TV, movies). Turn it on (if off), and select the Controller as the source device (enabling the path to the On-Screen Navigator) via programming. When you are done with the page flip, you'll need to turn off the device as needed so that you don't leave TVs or projectors turned on unnecessarily.
- **Use of 'The.'** The Control4 interface and Media Database ignore "The" in the sorting and presentation of Albums and Movies by Title; however, Control4 includes "The" when sorting and presenting Artists.
- **On-Screen Resolution display.** Control4 has chosen not to implement an On Screen Navigator interface for 4x3 (Standard Definition) resolution display devices. Control4 scales the 16x9 interface for display on the SD device. This comes with the following limitations:
 - The font size and image size of many interface elements may not be optimal.
 - The IP camera display buffer is not scaled and will not "fit" correctly if used on an SD display device.
- **USB Restore.** If you need to restore a Mini Touch Screen, Speaker Point Rev A, Media Controller, or Home Theater Controller using USB, you'll need to use the 1.7.4 version of the USB Restore utility. Speaker Point Rev. B MUST be restored to OS 2.2.1 or later; it will not restore from 1.7.4.
- **WEP and WPA.** Control4 WiFi devices that support WEP and WPA allow for the entry of ASCII keys in the network configuration interface. However, Control4's implementation of WEP is restricted to hexadecimal keys. You can use ASCII keys for WPA networks, but you must use HEX keys for WEP network configurations.
- **Wireless Thermostat.** When connecting to an OS 1.7.4 or an OS 1.8.2 system with a Control4 Wireless Thermostat with Composer 2.1, you will receive a message that the Wireless Thermostat driver failed to initialize. You can ignore this message. After the system updates to OS 2.3, the drivers needed by Composer will match those used by the system.

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- **The Audio Driver on Control4 devices only supports sample rates of 7200 – 48000 bits/second.** Control4 will not attempt to play any stored digital audio files with a higher sample rate. The files will scan and show up in the Media Database, but they will not play. If this situation occurs, an error in the audio log (if enabled) will indicate that the sample rate is too high.
- **Performance of FLAC audio streaming.** It is possible to require more CPU when streaming multiple FLAC files than what the Home Controllers HC-200, HC-300, or HC-500 can deliver. On these Controllers, Control4 only can stream up to two (2) FLAC files concurrently. If you anticipate the need for more, use an HC-1000 as the Primary Controller. FLAC format support is limited to 16 bits/sample at the following supported sample rates: 8kHz, 11.025kHz, 12kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz
- **The ZAP Coordinator cannot be replaced without re-creating the mesh.** The security parameters of the ZigBee Pro mesh are maintained by the ZAP Coordinator. Control4 does not currently have a solution for replacing the coordinator without requiring the mesh to be re-created and the devices to be rejoined. Because the ZAP Coordinator can't be changed, it won't show up in the list of ZAPs to avoid inadvertent changes.
- **ZigBee Mesh is down when the Coordinator is not running.** The ZigBee Pro mesh requires that the Controller defined as the coordinator is available and running ZAP. If not, the mesh network will be down until the coordinator is available.
- **Lighting Scenes limitations.** Each device can be included in up to 32 total scenes, and the project can have up to 1,000 total scenes. If you try to add a device that has reached its maximum amount of scenes, it will allow you to add the device to the scene. However, when the system gets the error back from the device that it isn't able to add any more scenes, it will remove the device from that scene and pop up a dialog in Composer that will alert the Installer to the problem (similar to the dialog that you get if you try to identify a device that's already identified within the project).
- **Non-routing devices and ZigBee Pro.** A maximum of six (6) non-routing devices can be added to the ZigBee Pro mesh without routing nodes. This limitation is unlikely to affect most deployments; however, the maximum number of non-routing devices (System Remote Controls or other "sleepy" devices) that can be joined to the front panel of a Controller is six (6). To add more sleepy devices, add other routing nodes (dimmers, switches, or keypads) to the mesh.
- **Devices operating with MiniApp firmware.** These devices do not have the ability to be controlled by or provide status feedback to the Control4 system. The MiniApp firmware image is used only during the ZigBee update process. Devices being updated from EmberNet to ZigBee Pro and from one ZigBee Pro firmware version to another will run the MiniApp firmware version during the update process. After the device is updated to the full firmware image, it will resume normal operation.
- **Control4 Wireless Thermostat (CCZ) is not supported in a Battery-Only configuration.** With ZigBee Pro firmware, the thermostat does not conserve the battery by going to sleep. Control4 has always recommended that Control4 Wireless Thermostats be installed with a dedicated power source (common wire) whenever possible, and if that isn't possible, to utilize a power-stealing configuration with two (2) relays. Control4 has never recommended that the Control4 Wireless Thermostat be installed in a battery-only configuration. However, if you have installed the Control4 Wireless Thermostat in a battery-only configuration, be aware that the ZigBee Pro firmware for the thermostat does not conserve the battery by putting the thermostat to sleep. This is not an issue for devices that have common power. It should work just fine with supported power stealing configurations. However, if a thermostat is configured for power stealing on a heat-only or cool-only system, it will use too much battery power and require frequent battery replacement.
- **During the startup phase, ZigBee Server has to assume that all nodes on the mesh are battery powered.** This assumption results in the address table on the ZAP's front panel getting filled up very quickly, since it is limited to eight (8) slots. After each node reports that they are routing nodes, the entry times out and then we have a free slot we can use. This affects the ability of devices (such as the Black and Decker ZigBee DoorLock and battery-powered devices from CardAccess) which actually

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need to use a slot in the address table on the front panel. After the mesh comes up and stabilizes, these devices can participate in the mesh. It can take up to 20 minutes for a 70-node mesh network to stabilize. During this period of mesh stabilization, these battery-powered devices may not work correctly.

- **Synchronization of Lighting Scenes.** Synchronization of lighting scenes occurs in the background after the scene is created. If a change is made to an existing scene, the Installer will have to force synchronization on that scene if they want the changes to take effect immediately (director will automatically check for synchronization on each lighting device every twelve minutes). To force synchronization of one particular scene, use the Sync this Scene button. To force synchronization of all scenes, use the Sync All Scenes button. Note: "Sync All Scenes" will thrash your ZigBee network for a while until every device in every scene has been contacted and brought fully up to date. As a rule of thumb, you should wait five (5) minutes or so after using Sync All Scenes before attempting to test or expecting ZigBee performance to return to normal.
- **Automatic channel changing.** Control4 has not implemented automatic channel changing in the ZigBee Pro implementation. The only scan Control4 does is on the first deployment. If you want to change the channel, you're welcome to, but Control4 recommends that you wait until the system is stabilized—with no updates underway—and all devices are online. The channel-changing process entails the Network Manager (ZigBee Server) notifying all nodes that the network is changing to a new channel. The devices acknowledge this and change to the new channel. If you do this with devices offline or updating, they can become lost. Eventually, they should find their way to the correct channel, but it can take a while.
- **Images used in the Announcement agent and in the web images from the camera driver should be no larger than 300KB.** The display of images in the Announcement agent and the display of web images through the web images camera driver are designed to work with small images commonly used on websites or in graphical user interfaces. The recommended size for these images is 300KB or less. Larger images will be scaled to the required size for the Navigator, but this scaling process for very large images can cause, for example, a Mini Touch Screen to restart.
- **Deleting an agent configuration may not delete all associated programming.** When deleting an agent, confirm that all associated programming is also deleted. You may need to delete some elements of associated programming manually.
- **Streaming an analog source from audio input on a Controller to a WiFi Audio Endpoint is limited to one (1) stream.** Audio signals that are processed through the analog input on a Controller are processed as a PCM stream and require much more bandwidth than streaming an MP3 to a WiFi audio endpoint. In this configuration, Control4 recommends that only one (1) stream be used at any one time.
- **Static on audio output.** As a reminder, occasionally when using the Home Theater Controller, Media Controller, Mini Touch Screen or SpeakerPoint as an audio endpoint, the devices will output static from one (1) or both of the audio outputs when music plays. This can be resolved by power cycling the device. The Mini Touch Screen's click sound also may play very loudly, and sound very harsh. This is caused by the same root problem; power cycling the device will resolve it. **Note:** The devices need to be unplugged and not just rebooted for the audio device to reset properly.
- **Cannot register a Controller with a "." in the name.** Due to network device naming conventions, it is not possible to register a Controller successfully if it has been configured with a period '.' in the Controller's name. Control4 advises Dealers to avoid this naming convention.

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4.3 Questions about OS 2.3 and Earlier

Here are some common questions related to OS 2.3.

4.3.1 Do I Need to Update My Customers to OS 2.3?

While it is not necessary for you to update your customers' systems to OS 2.3, we highly recommend that you update to this latest release, as the quality of this update has improved dramatically. We also recommend that you update customers who are experiencing problems with their prior release.

As with prior OS releases, Control4 recommends that dealers first familiarize themselves with OS 2.3 in their own home system and test systems. After gaining an understanding of the full product, including ZigBee Pro and the update procedures, you can make an informed decision about which of your customers might benefit from an update to OS 2.3.

If your customer is running 1.7.4, 1.8.2, or a prior version, you'll want to make sure you understand the performance changes in OS 2.1 and plan for that in the upgrade. This may require adding another controller to distribute system processes. You can use the *Balancing Size and System Usage Requirements* and *System Size Usage Modeling – Performance Calculator* technical bulletins to assist with this evaluation.

4.3.2 Which Version(s) of Composer Do I Need for OS 2.3?

Composer 2.2 is required to install and update systems to OS 2.3. It is not backwards compatible with prior versions of Control4 system software. If you are making changes to a prior version before this update, please use the corresponding Composer version based on the installed system version.

Using Composer 2.3, you can connect to a system running a previous version of software, but you should not modify the system.

You can have multiple versions of Composer installed on the same computer at the same time. If you have customers running prior versions of software on their systems, the corresponding versions of Composer must be used for maintenance and configuration work for those systems:

- Use Composer 2.3.0 for any OS 2.3.x system changes
- Use Composer 2.0.6 for any OS 2.0.x system changes
- Use Composer 1.8.2 for any OS 1.8.x system changes
- Use Composer 1.7.4 for any Release 1.6 or 1.7.x system changes

Customers who have purchased Composer Home Edition (Composer HE) must update their software to obtain the new capabilities of OS 2.3. The Composer HE software for all supported OS versions is available via the customer's my.control4.com account.

4.3.3 Can I Continue to Install Prior Release Systems?

Control4 may ship hardware with previous versions of the OS pre-installed. You may certainly install these systems using the bundled OS version. However, because of the significant improvements with this release, we recommend that the system be upgraded to OS 2.3 before turning the system over to your customer. This is the most current and the best-supported OS for Control4 systems.

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4.3.4 What Performance Changes Should I Expect from OS 2.3?

With each software release, as we've added new functionality, the software places more CPU demands on the controller. With OS 2.3, we have continued to make stability improvements to system performance when compared with prior OS 2.x versions. However, when compared with prior version systems running the legacy Navigator, OS 2.3 requires additional CPU capacity to deliver comparable performance. We strongly recommend installing OS 2.3 with a new HC-800 Controller for the best On-Screen Navigator and overall system performance.

Running OS 2.3 on HC-800 (and HC-250) results in our best performance in single-controller environments. Older controllers, including HC-200 and HC-300's support OS 2.3 and gain enhanced stability in projects with a single controller. **Note:** Overall performance on older hardware will be similar to previous 2.X OS releases. Please use the performance calculators to estimate needs for Navigators, ZigBee Server, ZAP, and Director.

We recommend that you evaluate performance capacity using *Balancing Size and System Usage Requirements* and *System Size Usage Modeling – Performance Calculator* technical articles on the Knowledgebase before installing or updating any Control4 single-Controller system.

4.4 Firmware Versions for OS 2.x.x

The following table lists devices and their firmware versions for OS 2.0 and later.

Control4 Devices	Firmware Version
Control4 Dock for iPod	00.03.20 (OS 2.0.x) 00.03.21 (OS 2.1) 00.03.22 (OS 2.2)
Audio Matrix Switch Multi Channel Amplifier Multi Channel Amplifier V3 4-Zone Amplifier Multi Tuner V1 Multi Tuner V2	03.03.70 (OS 2.x – no change)
Media Player	01.00.17.34 (OS 2.x – no change)
Media Player V2	02.00.22.39 (OS 2.x – no change)
Contact/Relay Extender – Ethernet	03.03.80 (OS 2.x – no change)
Ethernet LCD Keypad	03.03.70 (OS 2.x – no change)
Ethernet Switch (8-Port)	03.16.20 (OS 2.3.0)
Front panel for Matrix Switch, Multi Channel Amplifier, and Multi Tuner	No support for ZigBee Pro firmware – use Ethernet to connect to and control the audio products.

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Contact/Relay Extender – ZigBee	No support for ZigBee Pro firmware – use Ethernet.
Puck Dimmer (C4-DM201-Z)	03.16.13 (OS 2.3)
Puck Switch (C4-SM201-X)	03.16.13 (OS 2.3)
System Remote Control V1 and V2	No support for OS 2.0.
System Remote Control SR-150 (C4-SR150)	03.03.63 03.04.20 (OS 2.0.1) 03.06.34 (OS 2.1) 03.07.04 (OS 2.1.1) 03.11.04 (OS 2.2) 03.16.32 (OS 2.3)
System Remote Control SR-150B (C4-SR150B)	03.11.04 (OS 2.2) 03.16.32 (OS 2.3.)
System Remote Control SR-250 (C4-SR250)	03.03.63 03.04.20 (OS 2.0.1) 03.06.34 (OS 2.1) 03.07.22 (OS 2.1.1) 03.11.04 (OS 2.2) 03.16.32 (OS 2.3.)
System Remote Control SR-250B (C4-SR250B)	03.11.04 (OS 2.2) 03.16.32 (OS 2.3.)
Wireless Dimmer (C4-DIM1-Z) and Switch (C4-SW1-Z) (EM250)	03.03.38 03.06.16 (OS 2.1) 03.11.13 (OS 2.2) 03.16.28 (OS 2.3.0)
Wireless Dimmer (TDIM1-Z) and Switch (Reverse Phase/ELV)	03.03.38 03.06.14 (OS 2.1) 03.11.13 (OS 2.2) 03.16.28 (OS 2.3.0)
Wireless Fireplace Switch (C4-FS1-Z) (EM250)	03.16.28 (OS 2.3)
Wireless Dimmer (LDZ-101) and Switch (LDZ-101) (AVR – mini app devices)	03.03.38 03.06.28 (OS 2.1) 03.11.13 (OS 2.2) 03.16.28 (OS 2.3.0)

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Wireless Inline Dimmer (LDZ-IL51)	03.03.32 03.06.14 (OS 2.1) 03.11.04 (OS 2.2) 03.16.28 (OS 2.3.0)
Wireless Outlet Dimmer (LOZ-5D1) and Switch (LOZ-5S1)	03.03.32 03.06.14 (OS 2.1) 03.11.04 (OS 2.2) 03.16.28 (OS 2.3.0)
Wireless LCD Keypad (KPZ-10B1)	03.03.59 03.06.14 (OS 2.1) 03.11.04 (OS 2.2)
Wireless 2-Button (C4-KP2-Z), 3-Button (C4-KP3-Z), 6-Button (C4-KP6-Z) Keypads (EM250)	03.03.27 03.06.16 (OS 2.1) 03.11.04 (OS 2.2) 03.16.25 (OS 2.3)
Wireless 2-Button, (LSZ-3W1) 3-Button (KPZ-3B1), 6-Button (KPZ-6B1) Keypads (AVR – mini app devices)	03.03.27 03.06.14 (OS 2.1) 03.11.04 (OS 2.2)
Wireless Puck Dimmer	03.07.12 (OS 2.1.1) 03.11.13 (OS 2.2.0, 2.2.1, 2.2.2) 03.16.13 (OS 2.3)
Wireless Thermostat (CCZ-T1)	03.04.21 (OS 2.0.2) 03.06.21 (OS 2.1) 03.11.04 (OS 2.2) 03.11.20 (OS 2.2.1) 03.16.17 (OS 2.3.)
Hospitality Thermostat (TSTATM-Z)	03.16.17 (OS 2.3)
MDU Thermostat (TSTATMS-Z)	03.16.17 (OS 2.3)
Black and Decker Lock (BDL-C4-RF)	1.8.13 (OS 2.3)

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5. Upgrading to OS 2.3 and Later

Follow the recommendations in this section if you have an older system that uses Embernet and that you want to upgrade to ZigBee Pro with the latest release.

5.1 Update Recommendations for Existing Systems

IMPORTANT! (1) The OS 2.3 release utilizes ZigBee Pro for ZigBee RF communications. Controllers and ZigBee firmware devices upgraded to OS 2.1 cannot be downgraded to Release 1.7.4 or prior versions. (2) A few legacy products are not supported in OS 2.3. Other products are supported, but may have limited functionality or may not provide access to new capabilities.

Control4 recommends that customer systems running OS 2.0.x or 2.1.x be upgraded to OS 2.3 if they need any of the improvements included in this release.

1. Control4 recommends that customer systems running Release 1.8.2 be upgraded to OS 2.1. Control4 no longer provides any support for OS 1.8.2.
2. Control4 will continue to support Release 1.7.4 for existing customers for a limited time.
 - Please use Composer 1.7.4 to manage projects running on Release 1.7.4. Other versions of Composer may introduce incompatible drivers or project settings.
3. Control4 no longer provides support for versions of software prior to 1.7.4. We recommend that these systems either be left "as is" or be upgraded to Release 1.7.4 or to OS 2.3.
 - Control4 will not provide new or replacement hardware products for prior versions.
 - Customers may continue to run prior versions for as long as they want. However, Control4 Technical Support has limited ability to answer questions and provide assistance for older product releases.
 - Release 1.3.2.442 was the final release of the Release 1.3.x product line. While Control4 doesn't actively support this release, it is the best/final release of this line and may be considered as an option for customers who are using a Home Theater Controller or a Media Controller as the Primary Controller within the system.
 - Customers' systems running Release 1.6.0 or any 1.7.x release should be upgraded to Release 1.7.4 or to OS 2.3.

IMPORTANT! OS 2.3 is a complete system software release. All supported Control4 devices will receive new software or firmware. The update process will affect all devices in the Control4 system.

5.1.1 ZigBee Pro

Control4 has been utilizing ZigBee Pro for ZigBee RF communications since the release of OS 1.8 in August 2009. If you are updating a customer from a system of version 1.7.4 or prior, they will have ZigBee devices running the older ZigBee protocol. These systems can be updated all the way up to OS 2.3. However, special instructions apply. Please see *Composer Pro Software Release Update Instructions – 1.7.4 to 2.0* on the Knowledgebase for more information.

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5.1.2 Software License

In conjunction with the OS 2.0 release, Control4 introduced a Software License. All new Controller hardware product purchases include a Software License. This same license applies to OS 2.3. Customers who have systems purchased prior to OS 2.0 can purchase a software license for OS 2.3.

- The Software License is an electronic license purchased by the Control4 Dealer using their my.control4.com Dealer account credentials or through the standard purchase order process.
- A Dealer must purchase and assign a license to the customer's my.control4.com account (to which the system is registered) to upgrade prior-version systems to OS 2.3. If an upgrade is to be performed immediately after adding a license, the Dealer should perform a "Check In" using Composer Pro (Tools > Account Services).
- Customers who have previously updated their systems to any OS 2.x version will have the needed license to update to OS 2.3.
- Control4 provides a no-charge OS 2.x license for Controllers shipped on/after December 23, 2009. No paperwork or manual approval is required to receive the no-charge upgrade. To receive the no-charge upgrade, the eligible Controller must be the Primary Controller for the Control4 system. During the upgrade process, Update Manager will check the MAC address of the Primary Controller. If it is in the Control4 list of Controllers shipped on/after December 23, 2009, the upgrade will proceed without requiring a software license.

5.2 Quick Reference to the OS 2.3 and Later Upgrade Process

- The upgrade to OS 2.3 and later follows the same essential process that prior upgrades have followed, with a few basic exceptions which are called out here. The following description is a quick reference and doesn't go into detail in many areas. Please refer to the referenced documentation for additional information.
- Customer systems that are on Release 1.8.2 or any OS 2.0.x release can be upgraded to OS 2.3 and later using Remote Access. However, Control4 recommends that you become comfortable with the OS 2.3 upgrade procedures by performing several upgrades on-site before you decide to use Remote Access.
- Customer systems that are on Release 1.7.4 or prior releases can't be upgraded remotely due to the Dealer or Installer's physical presence needed to join ZigBee devices to the mesh during the ZigBee Pro upgrade process.

5.2.1 Pre-Work Prior to Arrival at the Customer's Location

1. **Ensure that Composer Pro for OS 2.3 and later has been installed and activated** on the Installer's laptop or PC. Internet connectivity is required for activation for first-time installations.
2. **Internet connectivity is required on-premise for upgrading from OS 2.0.x to OS 2.3 and later.** Because the OS 2.0.x release did not support USB Install, the Primary Controller must be updated first to OS 2.3 using either the USB Restore or using Update Manager with an Internet connection. Once the Primary Controller has been updated to OS 2.3, the USB Install for OS 2.3 can be used to update the remainder of the devices on the system. Ensure that Internet connectivity is available or plan for temporary Internet connectivity during the time the upgrade is performed. You can then upgrade the system to OS 2.3 after that.
 - a. If you plan to use the USB Install for OS 2.3 to upgrade to OS 2.3 from any version other than OS 2.0, create the USB Install stick and load the license information needed to complete the

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update. This requires Internet access, the type of the Primary Controller, and the MAC address of the Primary Controller.

3. **Make sure that you understand the upgrade path** based on the current version installed on the customer's system. For prior version upgrade support, see Section 5.3, "Validated Upgrade Paths for OS 2.3."
4. **If a Software License is needed** use your dealer account on my.control4.com to assign the license to the customer's account.
5. **If updating from Release 1.7.4, 1.8.2, or a prior version** make sure that you understand the impact that the new operating system and ZigBee Pro will have on devices in the system. You may need to sell replacement or additional hardware to make the system work correctly.

5.2.2 Upon Arrival at the Customer's Location

1. Connect to the Control4 system using the appropriate version of Composer for the system that is currently running.
 - a. Ensure that all IP and ZigBee devices are identified and online.
 - b. Ensure that all system programming is working as it should prior to beginning the update.
 - c. **Make a backup of the Control4 system in Composer prior to beginning the update.** This backup should be named so that you can find it later if needed.
2. (Optional) Make sure that the customer's media collection is backed up. Whether the media is stored on a Control4 Controller hard drive, a USB drive, or a network-attached storage device, it is subject to loss if the storage device fails. Control4 doesn't provide backup solutions for data storage, but recommends that you ensure that customers have chosen and used a backup solution to protect their data.
3. Connect to the Control4 system using Composer Pro 2.3 and later to initiate the upgrade to OS 2.3 and later, and then use Update Manager to begin the update process.
4. If updating from a version prior to OS 2.0.x, be aware of the following:

The Composer Pro upgrade wizard will give you the opportunity to convert the Media Database and write metadata to id3 tags in MP3 files.

 - a. The OS 2.x media scanning process allows Control4 to synchronize the Media Database with changes made by a third-party Media Manager (for example, Media Monkey, Apple iTunes, or Microsoft Media Player). This is done using the id3 tags embedded in the files.
 - If you believe the Control4 Media Database has the most correct/current information about song metadata, you can write this information to the mp3 file tags at this time (the storage device has to be online and writeable). If you don't write the metadata to the tags and then scan, the information in the Media Database will be replaced by the information in the tags when the media is scanned.
 - If you believe the media tags are more correct or current than the Control4 Media Database, you should NOT write the metadata from the Media Database to the tags.
 - b. The OS 2.x system uses a different Media Database format than 1.7.4, 1.8.2 and prior versions. You must convert it when you upgrade the system. If you choose not to convert it, the Media Database will be deleted and can be repopulated by scanning.
 - The 10.5" V2 Wireless Touch Screen now operates at a different resolution. During the upgrade process, the wizard will look for the Photo Screen Saver storage location and automatically scale all Screen Saver images for the new resolution.
5. Monitor the update progress of the IP devices using Update Manager.
6. If updating from a version prior to OS 2.0, after the Touch Screen devices have been updated (those that support the new Flash Navigator) they will prompt for recalibration prior to use.

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7. After the Primary Controller has been upgraded to OS 2.2 and later, the ZigBee Pro devices will begin their update automatically.
 - a. For Release 1.7.4 or prior version systems, an update of all ZigBee devices to ZigBee Pro is required. Please refer to the ZigBee Pro Upgrade Instructions, *Composer Pro Software Release Update Instructions – 1.7.4 to 2.0*, if you are not familiar with this procedure.
 - b. For OS 1.8.x systems and OS 2.x systems, the update to the latest ZigBee Pro firmware versions will happen automatically and will not require user intervention. Please be aware that ZigBee performance will be sluggish while firmware updates are in progress. Devices in MiniApp mode will have limited functionality while being updated.
8. At the conclusion of the update, please reboot the PC running Composer to ensure that the Samba mounts to the controllers are current.
9. **Back up the project.** After completing the update, please make a backup file of the Composer project. Give it a name that distinguishes it from the pre-upgrade backup. If you ever need to restore this system, having a current backup will save you a lot of time and effort.

5.3 Validated Upgrade Paths for OS 2.3

5.3.1 Primary Controller/System Upgrades

- Controllers running system versions earlier than Release 1.2.x may not be able to retain their project through an update.
- Any Release 1.2.x or prior version system (Primary Controller and devices) must be updated to Release 1.3.2. The update server automatically updates them to Release 1.3.2.234. Then they can be updated further, but it's a multiple-step process.
- Any Release 1.3.x system can be updated to Release 1.6 or to any Release 1.7.x. The system can be updated further, but it's a multiple-step process. Home Controller HC-300s being updated will have their internal memory repartitioned. The Installer must save the project and restore it after the update is completed, as the project will be lost when the device is repartitioned.
- Only systems running Release 1.6 or later can be directly updated to OS 2.3 and later.

5.3.2 Secondary Device Upgrades

- A Home Controller HC-300 functioning as a Secondary Controller needs to be updated to Release 1.6 or Release 1.7.x. This allows Control4 to repartition the internal memory.
- All other Secondary Controllers (Release 1.3.x or later) can be updated directly to any upstream version as long as they're added to a project with a Primary Controller that is running the correct version.

Control4 Operating System (OS) Release Version 2.3 Release Notes

5.4 Residential Software Product Releases

Control4 Software Releases (From Inception)		
Release 1.x.x		
Wednesday, July 06, 2005	1.0.203.8	Initial Release
Friday, September 02, 2005	1.1.2.2	Maintenance Release
Friday, October 14, 2005	1.2.0.90	Maintenance Release
Thursday, November 03, 2005	1.2.2.6	Maintenance Release
Sunday, December 28, 2005	1.2.3.43	WiFi Support
Monday, March 06, 2006	1.2.4.48	Maintenance Release
Thursday, March 23, 2006	1.2.4.50	Maintenance Release
Tuesday, May 30, 2006	1.2.5.28	Thermostat and Outlet Modules Support
Release 1.3.x		
Thursday, September 07, 2006	1.3.0	Initial Release
Monday, October 16, 2006	1.3.0.351	
Wednesday, December 20, 2006	1.3.1.114	Initial Release
Friday, January 12, 2007	1.3.1.116	
Wednesday, March 07, 2007	1.3.1.120	Daylight Savings Time Change
Tuesday, March 20, 2007	1.3.1.122	
Monday, July 23, 2007	1.3.2.228	Initial Release
Friday, August 03, 2007	1.3.2.230	Maintenance Release - Updating firmware on Amp, Switch, etc.
Thursday, August 23, 2007	1.3.2.234	Maintenance Release - Various fixes, including NAS on HC-300.
Wednesday, October 31, 2007	1.3.2.298	Support for Amplifier V3 Release
Thursday, November 15, 2007	1.3.2.318	Support for HC-1000 Release
Tuesday, February 26, 2008	1.3.2.438	Support for HC-500 Release
Wednesday, April 30, 2008	1.3.2.442	Maintenance Release - Disable Onboard Serial Port on HC300/HC500.
Wednesday, June 11, 2008	1.3.2.442	HC300 VBUS Change to Kernel.
Release 1.6.x		
Tuesday, July 29, 2008	1.6.0.486	Initial Release
Wednesday, Sept 17, 2008	1.6.0.512	Maintenance Release, SR-250
Release 1.7.x		
Monday, December 01, 2008	1.7.0.348	Initial Release
Monday, December 29, 2008	1.7.1.290	Dock for iPod Release

Control4 Operating System (OS) Release Version 2.3 Release Notes

Control4 Software Releases (From Inception)		
Monday, March 30, 2009	1.7.2.160	Remove Polling; HC-1000v2, ELV Dimmer, 7" Portable Touch Screen
Wednesday, April 29, 2009	1.7.3.20	7" Portable Touch Screen Release
Tuesday, September 29, 2009	1.7.3.68	Maintenance Release – Audio priority and 7" Touch Screen
Monday, December 14, 2009	1.7.4.36	Maintenance Release – On Screen focus and Zones improvements
Release 1.8.x		
Monday, August 31, 2009	1.8.0.44415	Initial Release
Monday, November 16, 2009	1.8.2.56194	Initial Release – multiple ZigBee Servers and Security changes
Wednesday, March 17, 2010	1.8.2.66691	Maintenance Release – Thermostat and B&D Lock
Release 2.0.x		
Tuesday, June 29, 2010	2.0.0.80198	Initial Release
Wednesday, August 18, 2010	2.0.1.86265	Maintenance Release – HC200B/HC300C
Tuesday, September 7, 2010	2.0.2.88485	Maintenance Release – 7" IE Touch Screen
Tuesday, October 19, 2010	2.0.4.92890	Maintenance Release – Fix snmpd/crond lockup
Tuesday, December 14, 2010	2.0.5.99233	Maintenance Release – HC200B as primary Controller
Wednesday, January 19, 2011	2.0.6.102864	Maintenance Release – 5" IE Touch Screen
Release 2.1.x		
Tuesday, June 7, 2011	2.1.0.126418	Initial Release
Tuesday, August 30, 2011	2.1.1.135702	Maintenance Release-Fix Flash Navigator lockups.
Release 2.2.x		
Tuesday, January 31, 2012	2.2.0.158343	Initial Release – HC-800 and 7" Portable Touch Screen with Camera
Wednesday, April 18, 2012	2.2.1.171726	Maintenance Release – HC-250
Monday, June 25, 2012	2.2.2.184775	Maintenance Release – 7" In-Wall Touch Screen with Camera, Door Station – Exterior
Wednesday, October 3, 2012	2.2.4.200568	Maintenance Release – Sony STR receiver, Door Station – Interior driver
Release 2.3.x		
Wednesday, December 12, 2012	2.3.0.210826-res	Initial Release – New agents, new Lighting UI, SDDP, new MyHome device management in licensing.

Control4 Operating System (OS) Release
Version 2.3 Release Notes

6. Technical Support Contact Information

If you encounter any issues during or following the update, or if you have any questions, please contact Control4 Technical Support for assistance.

Phone: 1-888-400-4072

Email: support@control4.com

For additional information about the new features and capabilities of OS 2.3 or later, refer to the new product training on the Web at <http://control4.webex.com>.

7. Legal Notice

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